



# VERTICAL MOTORS

Designed for use on turbine, mix flow and propeller pumps for the agriculture, turf, municipal and industrial markets.

**HP** – 3 through 500 HP

**Phase** – Single & Three Phase

**RPM** – 3600, 1800, or 1200

**Voltage** –

- Single Phase, 115/230 or 230 Volts
- Three Phase, 230/460 or 460 Volts
- International Duty, 220/380-440 Volts

**Efficiency** –

- Standard
- Energy Efficient
- Premium Efficient/Inverter Duty

**Enclosure** –

- Weather Protected Type I (WPI)
- Totally Enclosed Fan Cooled (TEFC)

**Construction** –

- Vertical Hollow Shaft
- Vertical Solid Shaft

**Mounting** – P-Base

**Thrust** – Normal, High & Extra High

**Thrust Bearing Lubrication** -

- Normal Thrust – Grease
- High Thrust
  - Up to 280 frame – Grease
  - 320 frame and larger – Oil
- Extra High Thrust
  - 320 frame and larger – Oil

**Guide Bearing Lubrication** - Grease

**Inverter Duty** – Meets NEMA<sup>®</sup> MG1 Part 31

**Agency** – UL<sup>®</sup> Recognized & CSA<sup>®</sup> Certified



† All non-Emerson Electric Co. marks shown within this document are properties of their other respective owners



When it comes to experience and quality in the Vertical Industry, Emerson's U.S. Motors<sup>®</sup> brand has a proven history of success. With one of the largest installed bases throughout the world, one brand stands alone for vertical motors, U.S. Motors<sup>®</sup>.

## **MODIFICATIONS AVAILABLE TO HIGH THRUST MOTORS**

- Non-Reverse Ballomatic<sup>®</sup> Ratchet or Self Release Coupling
- Various Coupling Sizes Available at no additional charge
- Multiple Base Sizes Available at no additional charge

## **MODIFICATIONS AVAILABLE TO INVERTER DUTY 320 FRAME AND LARGER STOCK PRODUCT**

- Bearing Resistance Temperature Detectors (RTD)
- 175% Extra High Thrust
- Vibration Switches
- Water Cooling Coils



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